

IN THE SPECIFICATION

At pages 5 and 6, please delete Table 1 in its entirety and replace it with the following amended Table 1.

TABLE 1

Symbol	Meaning	Unit
$a$	Acceleration	feet/s <sup>2</sup>
$a(t)$	Acceleration as a function of time	feet/s <sup>2</sup>
$B_i(t)$	brake functions	feet/s <sup>2</sup>
$C_l(t)$	Braking effect caused by lateral friction when train is in curve	feet
$C_p(t)$	Braking effect caused by weight increase when train is in curve	feet
$D$	distance	feet
$D(t)$	dynamic brake	pounds
$D_C$	degree of a curve (angle for 100 feet of track) <sup>1</sup>	degrees
$E_i(t)$	Elevation function	Feet
$F$	Force	pounds
$g$	Gravitational acceleration ( $9.82 \text{ m/s}^2 = 32.218 \text{ feet/s}^2$ )	Feet/s <sup>2</sup>
$K_a$	Corrective factor for the effect of aerodynamic friction	lbs/feet
$K_{bi}$	brake function coefficients	no unit
$K_d$	Corrective factor for the effect of dynamic brake application	no unit
$K_{ei}$	Corrective factor for the effect of elevation change on segment $i$ of the train	s <sup>-2</sup>
$K_l$	Corrective factor for the effect of lateral friction when train is in curve	s <sup>-2</sup>
$K_p$	Corrective factor for weight increase when train is in curve	s <sup>-2</sup>
$K_r$	Corrective factor for friction of a train rolling on straight horizontal track	feet/s <sup>2</sup>
$K_{ri}$	release function coefficient	no unit
$K_{rv}$	Dynamic corrective factor for friction of a train rolling on straight horizontal track	s <sup>-1</sup>
$K_t$	Corrective factor for the effect of throttle application	no unit
$L$	total train length	feet
$L_i$	length of segment $i$	feet
$l_{ij}$	length of the segment $i$ section $j$ of the train	feet
$M$	total train mass	lbs

<sup>1</sup> The field CURVE in track database.

Symbol	Meaning	Unit
$M_i$	mass of segment $i$	
$m_{ij}$	mass of the segment $i$ section $j$ of the train	lbs
$N_{ax}$	Number of powered axles	
$p(t)$	Pressure in brake pipe measured at front locomotive	psi
$P_{max}$	Maximum pressure in brake pipe	psi
$R$	curve radius	feet
$R_i(t)$	release functions	feet/s <sup>2</sup>
$L$	train length	feet
$T(t)$	traction force	pounds
$v$	speed	feet/s
$v(t)$	speed as function of time	feet/s
$v_d$	speed recorded in database	feet/s
$W$	total train weight	lbs
$w_{ij}$	weight of the segment $i$ section $j$ of the train	lbs